

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2002, 15:41:52 : Search time 268 seconds
(without alignments)
1378.089 Million cell updates/sec

Title: US-09-659-737A-1

Perfect score: 164

Sequence: 1 gcaccgggacatcaaggcag.....tgactggtggcccccagaag 164

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N.Geneseq_101002:*

- 1: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1980.DAT:*
- 2: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:*
- 3: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1982.DAT:*
- 4: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1983.DAT:*
- 5: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1984.DAT:*
- 6: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1985.DAT:*
- 7: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1986.DAT:*
- 8: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1987.DAT:*
- 9: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1988.DAT:*
- 10: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1989.DAT:*
- 11: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1990.DAT:*
- 12: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1991.DAT:*
- 13: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1992.DAT:*
- 14: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1993.DAT:*
- 15: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1994.DAT:*
- 16: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1995.DAT:*
- 17: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1996.DAT:*
- 18: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1997.DAT:*
- 19: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1998.DAT:*
- 20: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1999.DAT:*
- 21: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2000.DAT:*
- 22: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:*
- 23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:*
- 24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match %	Score	Length	ID	Description
1	164	100.0	164	22	AAF30487 Human MLK4 partial
2	152.8	93.2	2157	22	ABH46913 CDNA encoding huma
3	152.8	93.2	3066	24	ASQ86165 Novel human gene.
4	152.8	93.2	3111	24	ASB86357 Novel human protei
5	152.8	93.2	3518	24	ABN86358 Novel human protei
6	94.2	57.4	3141	22	AAAD18824 Human kinase (PKIN
7	94.2	57.4	3538	24	AAAD34309 Human PKIN-12 CDNA
8	87	53.0	444	22	AAI85458 Human polynucleoti
9	83	50.6	3558	24	ABK83874 Human cDNA differe

10	83	50.6	3558	24	ABK83874 Human cDNA differe
11	73.4	44.8	3454	24	ABK83874 Human cDNA differe
12	72.4	44.1	7084	22	ABK83874 Human cDNA differe
13	72.4	44.1	7084	22	ABK83874 Human cDNA differe
14	72	43.9	404	16	AAO49755 ptk gene lprk4 par
15	72	43.9	404	16	AAO49755 ptk gene lprk4 par
16	62	37.8	137	14	AAO49751 Protein tyrosine k
17	62	37.8	137	14	AAO49751 Protein tyrosine k
18	57.4	35.0	2072	23	ABK83874 Human cDNA differe
19	57.4	35.0	2072	23	ABK83874 Human cDNA differe
20	33.2	20.2	3365	24	ABK83874 Human cDNA differe
21	33.2	20.2	3365	24	ABK83874 Human cDNA differe
22	33.2	20.2	3365	24	ABK83874 Human cDNA differe
23	33.2	20.2	3365	24	ABK83874 Human cDNA differe
24	32.2	19.6	3427	24	ABK83874 Human cDNA differe
25	32	19.5	1008	20	AAO7105 Mouse ischaemic co
26	32	19.5	1008	20	AAO7105 Mouse ischaemic co
27	32	19.5	1008	20	AAO7105 Mouse ischaemic co
28	31.4	19.1	604	22	AAO7105 Mouse ischaemic co
29	31.4	19.1	604	22	AAO7105 Mouse ischaemic co
30	31	18.9	751	14	ABK83874 Human cDNA differe
31	31	18.9	751	14	ABK83874 Human cDNA differe
32	31	18.9	751	14	ABK83874 Human cDNA differe
33	30.8	18.7	2161	22	ABK83874 Human cDNA differe
34	30.6	18.7	2161	22	ABK83874 Human cDNA differe
35	30.6	18.7	2161	22	ABK83874 Human cDNA differe
36	30.6	18.7	2161	22	ABK83874 Human cDNA differe
37	30.6	18.7	2161	22	ABK83874 Human cDNA differe
38	30.6	18.7	2161	22	ABK83874 Human cDNA differe
39	30.6	18.7	2161	22	ABK83874 Human cDNA differe
40	30.6	18.7	2161	22	ABK83874 Human cDNA differe
41	30.6	18.7	2161	22	ABK83874 Human cDNA differe
42	30.6	18.7	2161	22	ABK83874 Human cDNA differe
43	30.4	18.5	1540	24	ABK83874 Human cDNA differe
44	30.4	18.5	1540	24	ABK83874 Human cDNA differe
45	30.2	18.4	1542	22	AAH16949 Human cDNA sequenc

ALIGNMENTS

RESULT 1

AAF30487
ID AAF30487 standard; CDNA; 164 BP.

AC AAF30487;

DT 29-MAY-2001 (first entry)

DE Human MLK4 partial CDNA.

XX MLK4; human; c-Jun N-terminal kinase kinase kinase; JNKKK;

XX protein kinase; ultraviolet radiation; skin damage; inflammatory;

XX psoriasis; radioprotective; antinflammatory; antipsoriatic;

XX vunerary; ss.

XX Homo sapiens.

OS Homo sapiens.

XX Key

XX CDS

XX Location/Qualifiers

XX 2..163

XX /*tag= a

XX /partial

XX EF1085093-A2.

XX PD

XX 21-MAR-2001.

XX 12-SEP-2000; 2000EP-0307866.

XX 20-SEP-1999; 99US-0155029.

XX (UYN) UNIV NEW YORK STATE.

DT 10-SEP-2002 (first entry)
 XX Novel human gene. SEQ ID 36.
 DE Human; cytostatic; vulnerary; antiarteriosclerotic; antiparkinsonian;
 XX neurotropic; neuroprotective; immunosuppressive; haemostatic;
 KW antiinflammatory; cardiant; antitumor; virucide; antithyroid;
 KW cerebroprotective; anorectic; metabolic; vaccine; cancer; infection;
 KW wound healing disorders; atherosclerosis; Parkinson's disease;
 KW Alzheimer's disease; autoimmune disorder; haematopoietic disorder;
 KW inflammation; neoplastic disease; nervous system disorder;
 KW cardiovascular disorders; pancreatitis; respiratory disorder;
 KW hyperproliferation; systemic autoimmune disease; hyper-immunity;
 KW developmental abnormality; gastrointestinal ulceration; neuropathy;
 KW haematological disease; metabolic disease; sperm dysfunction;
 KW thyroid disorder; hypothyroidism; brain damage; colitis;
 KW cone photo-transduction deficiency; neurological disease; stroke;
 KW angio genesis; ovulation disorder; spinal cord; thyroid gland; heart;
 KW trachea; thymus; lymph node; muscular system; obesity; anorexia;
 KW growth abnormality; precocious puberty; gene; ss.
 XX Homo sapiens.
 OS WO200250105-A1.
 XX 27-JUN-2002.
 XX 17-DEC-2001; 2001WO-US49232.
 XX 19-DEC-2000; 2000US-256710P.
 PR 20-DEC-2000; 2000US-257048P.
 PR 09-JAN-2001; 2001US-260482P.
 PR 30-JAN-2001; 2001US-264922P.
 PR 06-FEB-2001; 2001US-266797P.
 PR 19-MAR-2001; 2001US-276988P.
 PR 04-APR-2001; 2001US-281535P.
 PR 08-MAY-2001; 2001US-289622P.
 XX (SMIK) SMITHKLINE BEECHAM CORP.
 PA (SMIK) SMITHKLINE BEECHAM PLC.
 PA (GLAX) GLAXO GROUP LTD.
 XX Agarwal P, Birkeland M, Cogswell JP, Kabnick KF, Lai Y;
 PI Martensen SA, Rizvi SK, Smith RF, Strum JC, Xie Q;
 PL WPI: 2002-508784/54.
 XX P-PSDB; ABP61000.
 DR Secreted proteins and polynucleotides useful as vaccines for preventing
 XX or treating various diseases e.g. cancer, wounds, atherosclerosis,
 PI Parkinson's disease, Alzheimer's disease, infection, autoimmune
 XX disorder -
 XX Claim 2(a); Page 249; 335pp; English.
 XX The invention relates to an isolated polypeptide with signal sequences
 CC which allow it to be secreted extracellularly or membrane associated.
 CC The activity of polypeptides of the invention may be described as,
 CC cytostatic, vulnerary, antiarteriosclerotic, antiparkinsonian, neurotropic,
 CC neuroprotective, immunosuppressive, haemostatic, antiinflammatory,
 CC cardiant, antitumor, virucide, antithyroid, cerebroprotective, anorectic,
 CC and metabolic. Polypeptides and polynucleotides of the invention are
 CC useful in the treatment, or as a vaccine in the prevention of, cancer,
 CC wound healing disorders, infection, atherosclerosis, Parkinson's disease,
 CC and Alzheimer's disease, autoimmune disorder, haematopoietic disorder,
 CC inflammation, neoplastic diseases, nervous system related disorders and
 CC cardiovascular disorders, pancreatitis, respiratory disorder,
 CC hyperproliferation, systemic autoimmune disease, hyper-immunity,
 CC developmental abnormality, gastrointestinal ulceration, neuropathy,
 CC haematological diseases, metabolic diseases, sperm dysfunction, thyroid
 CC disorders e.g. hypothyroidism, brain damages, colitis, cone photo-
 CC transduction deficiency, neurological diseases, stroke, angiogenesis,
 CC ovulation disorders, diseases in the spinal cord, thyroid gland, heart,
 CC

CC trachea, thymus, lymph node and muscular system, obesity, anorexia,
 CC growth abnormalities, and alleviation of precocious puberty. The
 CC sequences given in records AB086130-AB086184 represent novel human cDNA's
 CC of the invention.
 XX Sequence 3066 BP; 738 A; 881 C; 852 G; 595 T; 0 other;
 SQ Query Match 93.2%; Score 152.8; DB 24; Length 3066;
 Best Local Similarity 95.7%; Pred. No. 4e-41;
 Matches 157; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 QY 1 GCACCGGACATCAAGCGAGGAATATTTTCTACTTGTGAGAAGATAGAACATGATGACAT 60
 DB 735 GCACCGGACCTCAAGTCAGCAACATTTTCTACTTGTGAGAAGATAGAACATGATGACAT 794
 QY 61 CTGCAATTAACATTTTCAAGATTTACAGATTTTGGCTTGGCGAGGATGCGCAGGACAC 120
 DB 795 CTGCAATTAACATTTTCAAGATTTTACAGATTTTGGCTTGGCGAGGATGCGCAGGACAC 854
 QY 121 CAAATGAGCAGCAGCAGGACCTATGCTGATGCGCCCAAG 164
 DB 855 CAAATGAGCAGCAGGACCTATGCTGATGCGCCCAAG 898
 RESULT 4
 ABN86357
 ID ABN86357 standard; DNA; 3111 BP.
 XX AC ABN86357;
 XX DT 08-OCT-2002 (first entry)
 XX DE Novel human protein (NHP) kinase coding sequence.
 XX KW Novel human protein; NHP; kinase; human; gene; ds.
 XX OS Homo sapiens.
 XX FH Key Location/Qualifiers
 FT 1..3111
 CDS /*tag= a
 FT /transl_except= (pos: 2773..2775, aa: Xaa)
 FT /product= "NHP kinase"
 FT /note= "Xaa can be any amino acid"
 XX WO200255685-A2.
 XX 18-JUL-2002.
 XX 10-DEC-2001; 2001WO-US47606.
 XX 11-DEC-2000; 2000US-254744P.
 XX (LEXI-) LEXICON GENETICS INC.
 XX Hu Y, Kieck JA, Donoho G;
 PI WPI; 2002-566739/60.
 DR P-PSDB; ABB80923.
 XX Novel human kinase polynucleotide encoding a protein that shares
 PT structural similarity with animal kinases for therapeutic, diagnostic
 PT and pharmacogenomic applications -
 XX Claim 1; Page 36-37; 41pp; English.
 XX The invention relates to a novel human protein (NHP), kinase that shares
 CC structural similarity with animal kinases. The kinase polynucleotides are
 CC useful in therapeutic, diagnostic and pharmacogenomic applications and
 CC for identifying compounds that modulate, i.e. act as agonists or
 CC antagonists of the gene expression or gene product activity. The present
 CC sequence represents the NHP kinase coding sequence.
 XX

Query Match 93.2%; Score 152.8; DB 24; Length 3518;
Best Local Similarity 95.7%; Pred. No. 4.3e-41;
Matches 157; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Query Match 93.2%; Score 152.8; DB 24; Length 3518;
Best Local Similarity 95.7%; Pred. No. 4.3e-41;
Matches 157; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

used in the prevention, diagnosis and treatment of diseases cancers,
 CC adenocarcinoma, leukaemia, sarcoma, immune disorder, Addison's disease,
 CC acquired immune deficiency syndrome (AIDS), anaemia, asthma, allergies,
 CC gout, microbial infections, cardiovascular disease and/or inflammation,
 CC myasthenia gravis, atherosclerosis, cirrhosis, osteoporosis, myocardial
 CC infarction, cataract, growth and development disorder, seizure disorder,
 CC pulmonary embolism, Gaucher's disease, lipid disorder, lipid storage
 CC disease, Pick's disease, Tay-Sachs disease, renal disease and obesity.
 CC PKIN may be used to treat disorders associated with decreased PKIN
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of PKIN by expressing inactive proteins or to
 CC supplement the patient's own production of PKIN. PKIN nucleic acids may be
 CC used to produce the PKIN polypeptide, by inserting the nucleic acids into
 CC a host cell and culturing the cell to express the protein. PKIN nucleic
 CC acid and its complementary sequences may also be used as DNA probes in
 CC diagnostic assays to detect and quantitate the presence of similar
 CC nucleic acid sequences in samples and therefore which patients may be
 CC in need of restorative therapy. The present sequence is human PKIN-9
 CC cDNA.

XX SQ Sequence 3141 BP; 685 A; 941 C; 942 G; 573 T; 0 other;
 Query Match 57.4%; Score 94.2; DB 22; Length 3141;
 Best Local Similarity 73.6%; Pred. No. 2.3e-21;
 Matches 120; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
 QY 2 CACCGGACATCAAGCAGGAAATATTGCTACTTGAAGATAGACATGATGACATC 61
 DB 766 CACCGGACCTTAACTCCAGCAATATATGCTCCAGAGAGGTGGAGATGGAGCCTG 825
 QY 62 TGCATTAACCTTGAAGATTACAGATTTGGCTGGCGAGGAGTGCACAGACACC 121
 DB 826 AGCAACAAGATTCTGAAGATCAGTATTTGGCTGGCGAGGAGTGCACAGACACC 885
 QY 122 AAATGAGCAGCAGGACCATCTGCTGGATGCCCCCAGAG 164
 DB 886 AAGATGAGTGGCGGAGGACGTATGCTGGATGCGACCCGAG 928

RESULT 7
 AAD34309
 ID AAD34309 standard; cDNA: 3538 BP.
 XX AC AAD34309;
 XX DT 16-JUL-2002 (first entry)
 XX DE Human PKIN-12 cDNA.
 XX KW Human; kinase; enzyme; PKIN-12 protein; immune system disorder; anaemia;
 KW acquired immune deficiency syndrome; thymic hypoplasia; Crohn's disease;
 KW asthma; neurological disorder; epilepsy; Charcot-Marie-Tooth disease;
 KW AIDS; seizures; cell proliferative disorder; cancer; adenocarcinoma;
 KW leukaemia; lymphoma; melanoma; myeloma; sarcoma; developmental disorder;
 KW Down's syndrome; gene therapy; protein therapy; cytostatic; gene; ss.
 OS Homo sapiens.
 XX FH Key Location/Qualifiers
 XX CDS 1..3294
 FT /*tag= a
 FT /product= "Human PKIN-12 protein"
 FT sig_peptide 1..51
 FT /*tag= b
 FT mat_peptide 52..3291
 FT /*tag= c
 FT /product= "Human mature PKIN-12 protein"
 XX PN W0200218557-A2.
 XX PD 07-MAR-2002.
 XX PF 31-AUG-2001; 2001WO-US27219.

XX 31-AUG-2000; 2000US-229873P.
 PR 08-SEP-2000; 2000US-231357P.
 PR 14-SEP-2000; 2000US-232654P.
 PR 22-SEP-2000; 2000US-234902P.
 PR 29-SEP-2000; 2000US-236499P.
 PR 06-OCT-2000; 2000US-238389P.
 PR 13-OCT-2000; 2000US-240542P.
 XX (INCY-) INCYTE GENOMICS INC.
 XX Bandman O, Nguyen DB, Wallia NK, Hafalia AJA, Yao MG, Gandhi AR;
 PI Gururajan R, Ding L, Patterson C, Yue H, Baughn MR, Tribouley CM;
 PI Thornton M, Elliott VS, Lu Y, Ison CH, Au-Young J, Tang YT;
 PI Azimzai Y, Burdill JD, Marcus GA, Zingler KA, Lu DM, Lal PG;
 PI Ramkumar J, Warren BA, Kearney L, Policky JL, Thangavelu K;
 PI Burford N;
 XX WPI; 2002-329769/36.
 DR P-PSDB; AAE21717.
 XX New human kinases, useful for diagnosing, treating or preventing immune
 PT system disorders (e.g. Crohn's disease), neurological disorders (e.g.
 PT epilepsy), or cell proliferative disorders (e.g. cancers such as
 PT leukemia or lymphoma)
 XX Claim 91; Page 207-208; 218pp; English.
 XX The present invention relates to human kinases (PKIN) and polynucleotides
 CC encoding such proteins. PKIN sequences of the invention are useful for
 CC diagnosing, treating or preventing disorders associated with aberrant
 CC expression of PKIN, particularly immune system disorders (e.g. acquired
 CC immune deficiency syndrome (AIDS), thymic hypoplasia, Crohn's disease,
 CC anaemia, asthma), neurological disorders (e.g. epilepsy, Charcot-Marie-
 CC Tooth disease or seizures), cell proliferative disorders (e.g. cancers
 CC such as adenocarcinoma, leukaemia, lymphoma, melanoma, myeloma, sarcoma),
 CC and developmental disorders (e.g. Down's syndrome). They are also used
 CC in gene therapy and protein therapy. The present sequence is a cDNA
 CC encoding human PKIN-12 protein.
 XX SQ Sequence 3538 BP; 763 A; 1055 C; 1062 G; 658 T; 0 other;
 Query Match 57.4%; Score 94.2; DB 24; Length 3538;
 Best Local Similarity 73.6%; Pred. No. 2.4e-21;
 Matches 120; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
 QY 2 CACCGGACATCAAGCAGGAAATATTGCTACTTGAAGATAGACATGATGACATC 61
 DB 796 CACCGGACCTTAACTCCAGCAATATGCTCCAGAGAGGTGGAGATGGAGCCTG 855
 QY 62 TGCATTAACCTTGAAGATTACAGATTTGGCTGGCGAGGAGTGCACAGACACC 121
 DB 856 AGCAACAAGATTCTGAAGATCAGTATTTGGCTGGCGAGGAGTGCACAGACACC 915
 QY 122 AAATGAGCAGCAGGACCATCTGCTGGATGCCCCCAGAG 164
 DB 916 AAGATGAGTGGCGGAGGACGTATGCTGGATGCGACCCGAG 958
 XX RESULT 8
 XX AAI85458/c
 ID AAI85458 standard; cDNA: 444 BP.
 XX AC AAI85458;
 XX DT 06-NOV-2001 (first entry)
 XX DE Human polynucleotide SEQ ID NO 5518.
 XX KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;
 KW nervous system disorders; arthritis; inflammation; ss.

Db 1196 CACCGTGATCTCAAGTCCAAACAAATTTTGGCTGCTGCAGCCCATTTGAGAGTGACGACATG 1255
 QY 62 TGCATTAATTAATTTTGAAGATTACAGATTTTGGTTGGCAGGAGGATGGCAGACGACACC 121
 Db 1256 GAGCACAAGACCCCTGAAGATCAGGACATTTGGCTGGCCGAGAGTGCGCAAAAACACACA 1315
 QY 122 AAAATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 164
 Db 1316 CAAATGAGTGCGCGGCGCACCTAGCGCTGGATGCTCTCTGAGG 1358
 RESULT 10
 AAD36139
 ID AAD36139 standard; DNA: 3558 BP.
 AC AAD36139;
 DT 09-AUG-2002 (first entry)
 DE Human mitogen activated protein kinase, MAP3K11 gene.
 KW Human; cytostatic; antisense gene therapy; screening; protein kinase;
 KW cancer; liver; colon; tumour; inflammation; arthritic synovium; MAP3K11;
 KW mitogen activated protein kinase; enzyme; gene; ds.
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 482..3025
 FT /*tag= a
 FT /product= "Human MAP3K11 protein"
 PN W0200224947-A2.
 PD 28-MAR-2002.
 PF 20-SEP-2001; 2001WO-1B02237.
 PR 20-SEP-2000; 2000US-233999P.
 PR 02-OCT-2000; 2000US-237419P.
 PR 02-OCT-2000; 2000US-237423P.
 PR 04-OCT-2000; 2000US-238558P.
 PR 10-MAY-2001; 2001US-290555P.
 XX (KINE-) KINETEK PHARM INC.
 PA (UYBR-) UNIV BRITISH COLUMBIA.
 XX Yoganathan T, Delaney AD;
 XX WPI: 2002-394145/42.
 DR P-PSDB; AAE22763.
 XX Diagnosing cancer, comprises determining the upregulation of expression
 PT of a nucleic acid sequence encoding a protein kinase or upregulation of
 PT expression of the protein kinase, in the cancer.
 XX
 PS Claim 16; Page 56-60; 87pp; English.
 CC The invention relates to a method for screening biologically active agent
 CC that modulates cancer associated protein kinase function. The invention
 CC also relates to a method for diagnosing cancer comprising determining the
 CC upregulation of expression of a nucleic acid sequence encoding a protein
 CC kinase. The method is useful for diagnosing cancer. A protein kinase is
 CC useful for screening biological agents that modulate cancer associated
 CC protein kinase function. Downregulating the activity of protein kinase is
 CC useful for inhibiting the growth of a cancer cell, e.g. liver or colon
 CC cancer. A nucleic acid encoding protein kinase is useful to screen biopsy
 CC derived tumours and inflammatory samples such as arthritic synovium, for
 CC amplified DNA in the cell or increased expression of corresponding mRNA
 CC or protein and is also useful to detect differences in expression levels
 CC such as molecular weight, amino acid and nucleotide sequences between the
 CC two cells. The present sequence is human mitogen activated protein kinase
 CC MAP3K11 gene.

XX Sequence 3558 BP; 635 A; 1211 C; 1161 G; 551 T; 0 other;
 SQ
 Query Match 50.6%; Score 83; DB 24; Length 3558;
 Best Local Similarity 69.3%; Pred. No. 1.4e-17;
 Matches 113; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
 QY 2 CACCGGACATCAAGCGCAGGAAATATTTTGGCTGCTGCAGGACATGACATGACATC 61
 Db 1196 CACCGTGATCTCAAGTCCAAACAAATTTTGGCTGCTGCAGGACATGACATGACATG 1255
 QY 62 TGCATTAATTAATTTTGAAGATTACAGATTTTGGTTGGCAGGAGGATGGCAGACGACACC 121
 Db 1256 GAGCACAAGACCCCTGAAGATCAGGACATTTGGCTGGCCGAGAGTGCGCAAAAACACACA 1315
 QY 122 AAAATGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 164
 Db 1316 CAAATGAGTGCGCGGCGCACCTAGCGCTGGATGCTCTCTGAGG 1358
 RESULT 11
 ABL70018
 ID ABL70018 standard; DNA: 3454 BP.
 AC ABL70018;
 DT 15-MAY-2002 (first entry)
 DE Pancreas cancer related gene sequence SEQ ID NO:8355.
 KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
 KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
 KW cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
 KW gene; ds.
 OS Homo sapiens.
 XX
 PN W0200194629-A2.
 PD 13-DEC-2001.
 PF 30-MAY-2001; 2001WO-US10838.
 PR 05-JUN-2000; 2000US-209473P.
 PR 05-JUN-2000; 2000US-209531P.
 PR 18-SEP-2000; 2000US-233133P.
 PR 18-SEP-2000; 2000US-233617P.
 PR 20-SEP-2000; 2000US-234009P.
 PR 20-SEP-2000; 2000US-234034P.
 PR 22-SEP-2000; 2000US-234052P.
 PR 22-SEP-2000; 2000US-234509P.
 PR 22-SEP-2000; 2000US-234567P.
 PR 25-SEP-2000; 2000US-234923P.
 PR 25-SEP-2000; 2000US-234924P.
 PR 25-SEP-2000; 2000US-235077P.
 PR 25-SEP-2000; 2000US-235082P.
 PR 25-SEP-2000; 2000US-235134P.
 PR 25-SEP-2000; 2000US-235280P.
 PR 26-SEP-2000; 2000US-235637P.
 PR 26-SEP-2000; 2000US-235638P.
 PR 27-SEP-2000; 2000US-235711P.
 PR 27-SEP-2000; 2000US-235720P.
 PR 27-SEP-2000; 2000US-235840P.
 PR 27-SEP-2000; 2000US-235849P.
 PR 28-SEP-2000; 2000US-236028P.
 PR 28-SEP-2000; 2000US-236032P.
 PR 28-SEP-2000; 2000US-236033P.
 PR 28-SEP-2000; 2000US-236034P.
 PR 28-SEP-2000; 2000US-236109P.
 PR 28-SEP-2000; 2000US-236111P.
 PR 29-SEP-2000; 2000US-236842P.
 PR 29-SEP-2000; 2000US-236891P.
 PR 02-OCT-2000; 2000US-237172P.

PR 02-OCT-2000; 2000US-237173P.
 PR 02-OCT-2000; 2000US-237278P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 02-OCT-2000; 2000US-237316P.
 PR 02-OCT-2000; 2000US-237425P.
 PR 03-OCT-2000; 2000US-237598P.
 PR 03-OCT-2000; 2000US-237604P.
 PR 03-OCT-2000; 2000US-237606P.
 PR 03-OCT-2000; 2000US-237608P.
 PR 01-NOV-2000; 2000US-244867P.
 PR 01-NOV-2000; 2000US-245084P.
 XX
 PA (AVAL-) AVALON PHARM.
 XX
 PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 PI Soppet DR, Weaver Z;
 XX
 DR WPI; 2002-188264/24.
 XX
 PT Screening for anti-neoplastic agent involves exposing cells to a
 PT chemical agent to be tested for anti-neoplastic activity, and
 PT determining a change in expression of a gene of a signature gene set -
 XX
 PS Claim 1; SEQ ID 8355; 44pp; English.
 XX
 CC The present invention describes a method (M1) for screening for an
 CC anti-neoplastic agent. The method involves exposing cells to a chemical
 CC agent to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (I)
 CC comprises a sequence (S) selected from 847 sequences (given in AB151664
 CC to AB170110) or is at least 95% identical to (S) where a change in
 CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening
 CC an anti-neoplastic agent, and can be used for producing a product which
 CC is the data collected with respect to the anti-neoplastic agent as a
 CC result of M1 and the data is sufficient to convey the chemical
 CC structure and/or properties of the agent. M1 can be used in the
 CC treatment of cancer such as colon, breast, stomachic cancer, thyroid,
 CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
 CC adenocarcinoma, squamous cell carcinoma, infiltrating ductal cancer,
 CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
 CC carcinoma, papillary carcinoma and Wilms' tumour.
 XX
 SQ Sequence 3454 BP; 594 A; 1217 C; 1136 G; 507 T; 0 other;
 Query Match 44.88; Score 73.4; DB 24; Length 3454;
 Best Local Similarity 65.68; Pred. No. 2.5e-14;
 Matches 107; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
 QY 2 CACCGGACATCAAGCGAGGAGATATTTGCTACTTGAGAGATAGACATGATGATC 61
 DB 946 CACCGGACCTCAATGCTACATCCATCTGCTGAGGCGCATCGACCAACCTC 1005
 QY 52 TGCATTAACCTTGTAGATTACAGATTTGGTTGGGAGGAGGATGCGACAGCCACC 121
 DB 1006 GCACACCGGTCTCAGATGACGAGCTTCGGCCCTCGCCGCGGATGCGACAGCCACC 1065
 QY 122 AATATGACACAGAGGACCTATGCTTGGATGCGCCCGCAGAG 164
 DB 1066 AAGATGAGCGCTCGCGGAGCTACGCTTGGATGCGCGCGGAGG 1108
 RESULT 12
 ABAL177
 ID ABAL177 standard; DNA; 7084 BP.
 XX
 AC ABAL177;
 XX
 DT 23-JAN-2002 (first entry)
 XX
 DE Human nervous system related polynucleotide SEQ ID NO 9508.
 XX

KW Human; nootropic; neuroprotective; cytostatic; dermatological; virucide;
 KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
 KW antiparkinsonian; antiskilling; antianaemic; antiarthritic; cancer;
 KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
 KW antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;
 KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
 XX Homo sapiens.
 XX WO200159063-A2.
 XX 16-AUG-2001.
 XX
 PD 17-JAN-2001; 2001WO-US01334.
 XX
 PF 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218280.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.
 PR 14-AUG-2000; 2000US-0225119.
 PR 14-AUG-2000; 2000US-0225113.
 PR 14-AUG-2000; 2000US-0225264.
 PR 14-AUG-2000; 2000US-0225269.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225276.
 PR 14-AUG-2000; 2000US-0225447.
 PR 14-AUG-2000; 2000US-0225757.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 22-AUG-2000; 2000US-0226673.
 PR 22-AUG-2000; 2000US-0226681.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228324.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 05-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 05-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231242.
 PR 08-SEP-2000; 2000US-0231243.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-0232080.
 PR 12-SEP-2000; 2000US-0232081.
 PR 14-SEP-2000; 2000US-0232397.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232399.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0232401.

PR	14-SEP-2000;	2000US-02330650;
PR	14-SEP-2000;	2000US-02330661;
PR	14-SEP-2000;	2000US-02330662;
PR	21-SEP-2000;	2000US-02330651;
PR	21-SEP-2000;	2000US-02342233;
PR	21-SEP-2000;	2000US-02342234;
PR	25-SEP-2000;	2000US-02349977;
PR	25-SEP-2000;	2000US-02349978;
PR	25-SEP-2000;	2000US-02349988;
PR	26-SEP-2000;	2000US-02334848;
PR	27-SEP-2000;	2000US-02358344;
PR	27-SEP-2000;	2000US-02358345;
PR	27-SEP-2000;	2000US-02358346;
PR	29-SEP-2000;	2000US-02363271;
PR	29-SEP-2000;	2000US-02363272;
PR	29-SEP-2000;	2000US-02363677;
PR	29-SEP-2000;	2000US-02363688;
PR	29-SEP-2000;	2000US-02363689;
PR	02-OCT-2000;	2000US-02363690;
PR	02-OCT-2000;	2000US-02363702;
PR	02-OCT-2000;	2000US-02368027;
PR	02-OCT-2000;	2000US-02370337;
PR	02-OCT-2000;	2000US-02370338;
PR	13-OCT-2000;	2000US-02370339;
PR	13-OCT-2000;	2000US-02370400;
PR	13-OCT-2000;	2000US-02399353;
PR	20-OCT-2000;	2000US-02399377;
PR	20-OCT-2000;	2000US-02409600;
PR	20-OCT-2000;	2000US-02417885;
PR	20-OCT-2000;	2000US-02417886;
PR	20-OCT-2000;	2000US-02417887;
PR	20-OCT-2000;	2000US-02418008;
PR	20-OCT-2000;	2000US-02418009;
PR	20-OCT-2000;	2000US-02418221;
PR	20-OCT-2000;	2000US-02422221;
PR	08-NOV-2000;	2000US-02446177;
PR	08-NOV-2000;	2000US-02464747;
PR	08-NOV-2000;	2000US-02464755;
PR	08-NOV-2000;	2000US-02464777;
PR	08-NOV-2000;	2000US-02464778;
PR	08-NOV-2000;	2000US-02464779;
PR	08-NOV-2000;	2000US-02465233;
PR	08-NOV-2000;	2000US-02465234;
PR	08-NOV-2000;	2000US-02465245;
PR	08-NOV-2000;	2000US-02465255;
PR	08-NOV-2000;	2000US-02465256;
PR	08-NOV-2000;	2000US-02465257;
PR	08-NOV-2000;	2000US-02465288;
PR	08-NOV-2000;	2000US-02465332;
PR	08-NOV-2000;	2000US-02465333;
PR	08-NOV-2000;	2000US-02466100;
PR	08-NOV-2000;	2000US-02466111;
PR	08-NOV-2000;	2000US-02492133;
PR	17-NOV-2000;	2000US-02466133;
PR	17-NOV-2000;	2000US-02492077;
PR	17-NOV-2000;	2000US-02492088;
PR	17-NOV-2000;	2000US-02492089;
PR	17-NOV-2000;	2000US-02492100;
PR	17-NOV-2000;	2000US-02492111;
PR	17-NOV-2000;	2000US-02492112;
PR	17-NOV-2000;	2000US-02492113;
PR	17-NOV-2000;	2000US-02492134;
PR	17-NOV-2000;	2000US-02492135;
PR	17-NOV-2000;	2000US-02492155;
PR	17-NOV-2000;	2000US-02492997;
PR	17-NOV-2000;	2000US-02492998;
PR	17-NOV-2000;	2000US-02493091;
PR	01-DEC-2000;	2000US-02510330;
PR	05-DEC-2000;	2000US-02510330;
PR	05-DEC-2000;	2000US-02510331;
PR	06-DEC-2000;	2000US-02567199;
PR	06-DEC-2000;	2000US-02567199;
PR	06-DEC-2000;	2000US-02518556;

PR	08-DEC-2000;	2000US-0251968.
PR	08-DEC-2000;	2000US-0251969.
PR	08-DEC-2000;	2000US-0251989.
PR	08-DEC-2000;	2000US-0251990.
PR	11-DEC-2000;	2000US-0254097.
PR	05-JAN-2001;	2001US-0259678.
XX		
PA	(HUMA-) HUMAN GENOME SCI INC.	
FI	Rosen CA, Barash SC, Ruben SM;	
FI	WPI; 2001-541565/60.	
DR		
XX		
PT	Nucleic acids encoding 3224 human nervous system antigen polypeptides,	
PT	useful for preventing, diagnosing and/or treating nervous system	
PT	cancers and metastases -	
XX		
FS	Disclosure; SEQ ID NO 9508; 1701pp + Sequence Listing; English.	
XX		
CC	The invention relates to novel genes (ABAI1004-ABA21534) and proteins	
CC	(ABBI4678-ABBI8001) useful for preventing, treating or ameliorating	
CC	medical conditions e.g. by protein or gene therapy. The genes are	
CC	isolated from a range of human tissues disclosed in the specification.	
CC	The nucleic acids, proteins, antibodies and (ant)agonists are useful	
CC	in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast	
CC	and ovarian cancer and other cancers of the adrenal gland, bone, bone	
CC	marrow, breast, gastrointestinal tract, liver, lung, or urogenital;	
CC	(b) immune disorders e.g. Addison's disease, allergies, autoimmune	
CC	haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's	
CC	disease, multiple sclerosis, rheumatoid arthritis and ulcerative	
CC	colitis; (c) cardiovascular disorders such as myocardial ischaemias;	
CC	(d) wound healing; (e) neurological diseases e.g. cerebral anoxia and	
CC	epilepsy; and (f) infectious diseases such as viral, bacterial, fungal	
CC	and parasitic infections.	
CC	Note: The sequence data for this patent did not form part of the	
CC	printed specification, but was obtained in electronic format directly	
CC	from WIPO at ftp.wipo.int/pub/published_pct_sequences.	
XX		
SO	Sequence 7084 BP; 1519 A; 1987 C; 2073 G; 1505 T; 0 other;	
	Query Match	44.1%; Score 72.4; DB 22; Length 7084;
	Best Local Similarity	70.3%; Pred. No. 7.3e-14;
	Matches 97; Conservative	0; Mismatches 41; Indels 0; Gaps
QY	27 TTTTGGCTACTGTGAGAGATAGAACATGATGACATCTGCAATAAAACTTTGAAGATTACAG	86
Db	4670 TTTTGGCTGCTGCAGCCCATTTGAGTGAGTGACGACATGGAGCACAAGACCTTGAAGATCACCG	4729
QY	87 ATTTTGGTGTGGCGGGGATGGCAGAGCCACCACCAAAATGAGCAGACAGCGACCTATG	146
Db	4730 ACTTTGGCTTGGCCGAGAGTGCCAAACCAACCAACACACATGATGATGCGCGGCACCTACG	4789
QY	147 CCTGGATGGCCCCAGAG	164
Db	4790 CCTGGATGGCTCTGAGG	4807
RESULT 13		
AAK73916		
ID	AAK73916 standard; DNA; 7084 BP.	
XX		
AC	AAK73916;	
XX		
DT	07-NOV-2001 (first entry)	
XX		
DE	Human immune/haematopoietic antigen genomic sequence SEQ ID NO:28728.	
XX		
KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;	
KW	cytostatic; gene therapy; vaccine; metastasis; ds.	
OS	Homo sapiens.	
XX		
PN	WO200157182-A2.	

XX PD 09-AUG-2001. 2000US-0236367.
XX XX 29-SEP-2000; 2000US-0236368.
XX PF 29-SEP-2000; 2000US-0236369.
XX XX 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX XX (HUMA-) HUMAN GENOME SCI INC.
XX PA Rosen CA, Barash SC, Ruben SM;
XX PI
XX XX

DR WPI; 2001-483436/52.
 XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and
 PT metastasis.
 XX
 PS Disclosure; SEQ ID NO 28728; 3071pp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/haematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK87594 represent human immune/haematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention.
 XX
 SQ Sequence 7084 BP; 1519 A; 1987 C; 2073 G; 1505 T; 0 other;
 Query Match 44.1%; Score 72.4; DB 22; Length 7084;
 Best Local Similarity 70.3%; Pred. No. 7.3e-14;
 Matches 97; Conservative 0; Mismatches 41; Indels 0; Gaps 0;
 QY 27 TTTTGTCTACTGAGAGATAGACATGACATCTGCAATAAATCTTGAAGATTACAG 86
 Db 4670 TTTTGTCTGTCAGCCATTTGAGAGTGACGATGAGACACAAAGACCTGAAGATCACCG 4729
 QY 87 ATTTTGGTGTGGCAGGAGATGACAGGACCAACCAATGAGCAGCAGGACCTATG 146
 Db 4730 ACTTTGGCTGTGGCCGAGAGTGACCAAAACCAACCAATGAGTGGCGGCGACCTACG 4789
 QY 147 CCTGGATGGCCCGCAGAG 164
 Db 4790 CCTGGATGGCTCTGAGG 4807
 RESULT 14
 ID AAK49755 standard; DNA; 404 BP.
 AC AAK49755;
 XX
 DT 10-MAR-1994 (first entry)
 XX
 DE pTK gene LpTK4 partial sequence.
 XX
 DE pTK; protein tyrosine kinase; catalytic domain; c-kit; megakaryocyte;
 KW lymphocyte; amplification; primer; polymerase chain reaction; PCR; ds.
 XX
 XX Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 212 /*tag= a
 FT /note= "base labelled as X in the specification"
 FT misc_difference 222 /*tag= b
 FT /note= "base labelled as X in the specification"
 FT misc_difference 321 /*tag= c
 FT /note= "base labelled as X in the specification"
 XX
 PN W09315201-A.
 XX

PD 05-AUG-1993.
 XX
 PF 22-JAN-1993; 93WO-US00586.
 XX
 PR 22-JAN-1992; 92US-0826935.
 XX
 PA (NEW-) NEW ENGLAND DEACONESS HOSPITAL.
 XX
 PI Avraham H, Cowley S, Groopman J, Scadden D;
 XX WPI; 1993-320330/40.
 XX
 DR New protein tyrosine kinase genes and proteins encoded by genes -
 PT are of human mega-karyocytic origin
 XX
 PS Claim 2; Fig 6; 60pp; English.
 XX
 CC pTK genes were identified using two sets of degenerative
 CC oligonucleotide primers: a first set which amplifies all pTK DNA
 CC segments (AAQ49743-44), and a second set which amplifies highly
 CC conserved sequences present in the catalytic domain of the c-kit
 CC subgroup of pTKs (AAQ49745-46). The pTK genes identified are described
 CC in AAQ49747-57 and AAK41897-02.
 CC The LpTKs are expressed in lymphocytic cells, as well as
 CC megakaryocytic cells. Sequencing of LpTK-4 revealed the sequences
 CC given in AAQ49751 and AAQ49755. The protein sequence corresp. to
 CC AAQ49751 is claimed (claim 7) and stated as given in the specification,
 CC however is missing from the publication.
 XX
 SQ Sequence 404 BP; 95 A; 106 C; 123 G; 77 T; 3 other;
 Query Match 43.9%; Score 72; DB 14; Length 404;
 Best Local Similarity 59.6%; Pred. No. 2.9e-14;
 Matches 96; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
 QY 27 TTTTGTCTACTGAGAGATAGACATGACATCTGCAATAAATCTTGAAGATTACAG 86
 Db 103 TTTTGTCTGTCAGCCATTTGAGAGTGACGATGAGACACAAAGACCTGAAGATCACCG 162
 QY 87 ATTTTGGTGTGGCAGGAGATGACAGGACCAACCAATGAGCAGCAGGACCTATG 146
 Db 163 ACTTTGGCTGTGGCCGAGAGTGACCAAAACCAACCAATGAGTGGCGGCGACCTACN 222
 QY 147 CCTGGATGGCCCGCAGAG 164
 Db 223 CCTGGATGGCTCTGAGG 240
 RESULT 15
 ID AAT03098 standard; DNA; 404 BP.
 AC AAT03098;
 XX
 DT 14-FEB-1996 (first entry)
 XX
 DE Protein tyrosine-kinase LpTK4 DNA fragment.
 XX
 KW Protein tyrosine-kinase; pTK; LpTK4; agonist; cell growth;
 KW differentiation; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT misc_difference 212 /*tag= a
 FT /note= "base n at position 212 is not identified
 FT in the specification"
 FT misc_difference 222 /*tag= b
 FT /note= "base n at position 222 is not identified
 FT in the specification"
 FT misc_difference 321

